EXPRESS EV405246117US

PATENT COOPERATION TREATY

THOMSON multimedia RECEIVED

26. Jan. 2005 Patent Department d<u>ministration-Hannover</u>

From the

INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY

To:

THIES, Stephan Deutsche Thomson-Brandt GmbH **European Patent Operations** Karl-Wiechert-Allee 74 30625 Hannover **ALLEMAGNE** 

NOTIFICATION OF TRANSMITTAL OF THE INTERNATIONAL PRELIMINARY **EXAMINATION REPORT** 

(PCT Rule 71.1)

Date of mailing

(day/month/year)

25.01.2005

Applicant's or agent's file reference

International application No.

PCT/EP 03/13837

PD020113 V

International filing date (day/month/year)

06.12.2003

IMPORTANT NOTIFICATION Priority date (day/month/year)

20.12.2002

Applicant

THOMSON LICENSING S.A. ET AL.

- The applicant is hereby notified that this International Preliminary Examining Authority transmits herewith the international preliminary examination report and its annexes, if any, established on the international application.
- 2. A copy of the report and its annexes, if any, is being transmitted to the International Bureau for communication to all the elected Offices.
- Where required by any of the elected Offices, the International Bureau will prepare an English translation of the report (but not of any annexes) and will transmit such translation to those Offices.

#### 4. REMINDER

The applicant must enter the national phase before each elected Office by performing certain acts (filing translations and paying national fees) within 30 months from the priority date (or later in some Offices) (Article 39(1)) (see also the reminder sent by the International Bureau with Form PCT/IB/301).

Where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report. It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned.

For further details on the applicable time limits and requirements of the elected Offices, see Volume II of the PCT Applicant's Guide.

The applicant's attention is drawn to Article 33(5), which provides that the criteria of novelty, inventive step and industrial applicability described in Article 33(2) to (4) merely serve the purposes of international preliminary examination and that "any Contracting State may apply additional or different criteria for the purposes of deciding whether, in that State, the claimed inventions is patentable or not" (see also Article 27(5)). Such additional criteria may relate, for example, to exemptions from patentability, requirements for enabling disclosure, clarity and support for the claims.

Name and mailing address of the international preliminary examining authority:



European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d

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**Authorized Officer** 

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## **PATENT COOPERATION TREATY**

# PCT

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference PD020113				FOR FURTHER ACTION  See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)					
International application No. PCT/EP 03/13837				International filing date (day/month/year) 06.12.2003		Priority date (day/month/year) 20.12.2002			
	nationa B7/1		ent Classification (IPC) o	r both national classificat	ion and IPC				
	icant DMSC	ON LI	ICENSING S.A. ET	AL.					
1.	. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.								
2.	This REPORT consists of a total of 4 sheets, including this cover sheet.  This report is also accompanied by ANNEXES, i.e. sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).								
	The	se an	nexes consist of a tot	al of 2 sheets.					
3.	This	repo	rt contains indications	relating to the following	na items:				
	1		Basis of the opinior	•					
	11		Priority			•			
	111		-	of oninion with regard	to novelty inventive	sten and industrial applicability			
	IV		A Company of the Comp	Non-establishment of opinion with regard to novelty, inventive step and industrial applicability  _ack of unity of invention					
	•				i) with regard to nove h statement	elty, inventive step or industrial applicability;			
	VI	☐ Certain documents		cited					
	VII		Certain defects in the	ne international applica	ation				
	VIII		Certain observation	s on the international	application				
Date	of sub	omissio	on of the demand		Date of completion	on of this report			
15.07.2004				25.01.2005					
Name and mailing address of the international preliminary examining authority:  European Patent Office D-80298 Munich Tel. +49 89 2399 - 0 Tx: 523656 epmu d Fax: +49 89 2399 - 4465					Authorized Officer				
					Damp, S				
					Telephone No. +	49 89 2399-7420			

# INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 03/13837

l. Basis	of the	report
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1. With regard to the **elements** of the international application (Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments (Rules 70.16 and 70.17)):

	Des	scription, Pages					
	1-10	0	as originally filed				
	Cla	ims, Numbers					
	1-8		received on 28.10.2004 with letter of 22.10.2004				
	Dra	wings, Sheets					
	1/2-	2/2	as originally filed				
2.	With regard to the <b>language</b> , all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.						
	The	se elements were av	ailable or furnished to this Authority in the following language: , which is:				
		the language of a tra	anslation furnished for the purposes of the international search (under Rule 23.1(b)).				
		the language of publ	lication of the international application (under Rule 48.3(b)).				
		the language of a tra Rule 55.2 and/or 55.	anslation furnished for the purposes of international preliminary examination (under 3).				
3.	Witl inte	n regard to any <b>nucle</b> rnational preliminary	eotide and/or amino acid sequence disclosed in the international application, the examination was carried out on the basis of the sequence listing:				
		contained in the inte	rnational application in written form.				
		filed together with th	e international application in computer readable form.				
		☐ furnished subsequently to this Authority in written form.					
		furnished subsequer	ntly to this Authority in computer readable form.				
		The statement that the subsequently furnished written sequence listing does not go beyond the disclosur in the international application as filed has been furnished.					
		The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.					
4.	The	amendments have r	esulted in the cancellation of:				
		the description,	pages:				
		the claims,	Nos.:				
		the drawings,	sheets:				

### INTERNATIONAL PRELIMINARY **EXAMINATION REPORT**

International application No.

PCT/EP 03/13837

5. [	This report has been established as if (some of) the amendments had not been made, since they have
	been considered to go beyond the disclosure as filed (Rule 70.2(c)).

(Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.)

6. Additional observations, if necessary:

V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

No:

No:

No:

Yes: Claims Claims 1-8

Inventive step (IS)

Yes: Claims

1-8

Claims Claims

Yes: Claims

1-8

2. Citations and explanations

Industrial applicability (IA)

see separate sheet

#### Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

Reference is made to the following documents:

D1: EP-A-0 986 057 (SEIKO INSTR INC) 15 March 2000 (2000-03-15)

D2: US 2001/026422 A1 (NISHIMOTO HIDEKI) 4 October 2001 (2001-10-04)

D3: EP-A-0 501 477 (SHARP KK) 2 September 1992 (1992-09-02)

D4: US-A-5 508 857 (HORITA MASAMI) 16 April 1996 (1996-04-16)

The documents D1 - D4 describe a slider-loading mechanism according to the preamble of claim 1.

Different solutions for activating the lever are shown, e.g. a magnetic swing (D4), a spring loaded lever (D2) or other mechanical swinging (D3); D1 does not describe a specific lever realization.

The present application seeks to realize an alternative lever mechanism.

This is performed by a lever actuated via a gear mechanism which is driven by a loading pin when a rack is moved.

No hint can be found in the documents of the SR for this realization. Moreover, this solution seems not to be obvious in view of the general knowledge of the skilled man. Consequently, the present claim 1 as well as the dependent claims are considered to be new and to be based on an inventive step.





# - 11JE09 Rec'd PCT/PTO 14 JUN 2005

#### Patent Claims

- A slider-loading mechanism for an optical drive, having a slider (2) which is fastened on a resilient arm (6) and is lowered onto the surface of an optical storage medium (8) and/or raised from the surface of the optical storage medium (8), and a loading element (1) separate from the resilient arm (6), the loading element (1) penetrating between the surface of the optical storage medium (8) and the resilient arm (6) and being actuated via a lever (3) for acting on the resilient arm (6) to lower and/or raise the slider (2), characterized in that the lever (3) is actuated via a gear mechanism (5, 7) having a loading pin (7), which is provided with a gearwheel, and a rack (5), which is arranged in a displaceable manner and interacts with the gearwheel of the loading pin (7).
- The slider-loading mechanism as claimed in claim 1, 2. characterized in that a linear drive is provided for the rack (5).
- 3. The slider-loading mechanism as claimed in claim 2, characterized in that the gearwheel of the loading pin (7) is actuated by moving the rack (5) relative to the gearwheel with the linear drive.
- The slider-loading mechanism as claimed in one of claims 1 - 3, characterized in that the gearwheel of the loading pin (7) is actuated by moving the gearwheel relative to the rack (5) using a rough tracking function.
- The slider-loading mechanism as claimed in one of claims 5. 1 - 4, characterized in that it further includes displacement stops for the rack (5) for ensuring that the slider (2) is always lowered and/or raised in a reading/writing region of the storage medium (8).





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- 6. The slider-loading mechanism as claimed in one of claims 1 5, characterized in that in the lowered position the resilient arm (6) is not in contact with the loading element (1).
- 7. The slider-loading mechanism as claimed in one of claims 1 6, characterized in that it further includes an adjusting means for adjusting the prestressing of the resilient arm (6).
- 8. A unit for reading from and/or writing to optical recording media, characterized in that it has a slider-loading mechanism as claimed in one of claims 1 7.